

## Nu-Metrics Traffic Analyzer Study

### Computer Generated Summary Report

City: 100' South of speed hump

Street: Oak St. # 22 Red

A study of vehicle traffic was conducted with HI-STAR unit number 6312. The study was done in the South Bound lane on Oak St. using counter # 22 Red as shown on attached drawing. The counter was placed 100 ft. south of the speed hump. The study began on 01/20/2004 at 04:00 PM and concluded on 01/23/2004 at 12:00 PM, lasting a total of 68 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 4,669 vehicles passed through the location with a peak volume of 231 on 01/21/2004 at 03:00 PM and a minimum volume of 0 on 01/21/2004 at 03:00 AM. The AADT Count for this study was 1,648.

#### SPEED

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

Chart 1							
0 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 >
0	152	324	996	1906	881	154	45

At least half of the vehicles were traveling in the 25 - 29 mph range or a lower speed. The average speed for all classified vehicles was 26 mph with 66.9 percent exceeding the posted speed of 25 mph. The HI-STAR found 4.46 percent of the total vehicles were traveling in excess of 35 mph. The mode speed for this traffic study was 25 mph and the 85th percentile was 32.33 mph.

#### CLASSIFICATION

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

Chart 2							
0 to 20	21 to 27	28 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 >
4305	120	27	2	1	3	0	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 4,425 which represents 99.30 percent of the total classified vehicles. The number of Small Trucks in the study was 27 which represents 0.60 percent of the total classified vehicles. The number of Trucks/Buses in the study was 2 which represents 0.00 percent of the total classified vehicles. The number of Tractor Trailers in the study was 4 which represents 0.10 percent of the total classified vehicles.

#### HEADWAY

During the peak time period, on 01/21/2004 at 03:00 PM the average headway between the vehicles was 15.52 seconds. The slowest traffic period was on 01/21/2004 at 03:00 AM. During this slowest

period, the average headway was 3600.0 seconds.

### **WEATHER**

The roadway surface temperature over the period of the study varied between 21 and 41 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.